## IN THE CLAIMS

Please amend claims 1, 8, and 16-18, as follows.

- 1. (Currently Amended) A service gateway operable to
  - (i) connect at least one local client to an external network; and
  - (ii) hold at least one service module for providing a corresponding service, wherein the service gateway includes a control mechanism configured to respond to a request for a first service provided by a service module not present at the service gateway by sending one or more messages to an external source until a response from the external source identifies a service module within the gateway that is capable of providing the first service;
  - wherein the response received from the external source identifies a proposed service
    and includes an input stream comprising an encoded version of the first
    service, wherein the proposed service is a service required to decode the
    encoded version of the first service.
- 2. (Previously Presented) The service gateway of claim 1, further comprising a record that identifies service modules that are held by the service gateway, the record including a pointer to each of the service modules, wherein the control mechanism is operable to:

  react to a received request that identifies a first service module by:
  - accessing the record to determine if the first service module is held by the service gateway;
  - using the associated pointer included in the record to cause the first service module to provide a corresponding service if the first service module is held by the service gateway; and
  - requesting support from an external source by sending a message to the external source that includes an identification of the first service module if the first service module is not held by the service gateway; and

react to a response from the external source that identifies a second service module by:

accessing the record to determine if the second service module is held by the service gateway;

using the associated pointer included in the record to cause the second service module to provide the corresponding service if the second service module is held by the service gateway; and

requesting support from an external source by sending a message to the external source that includes an identification of the second service module if the second service module is not held by the service gateway.

3. (Previously Presented) The service gateway of claim 2, wherein the control mechanism is operable to:

react to a response from the external source that identifies a further service module by accessing the record to identify if the further service module is held by the service gateway and:

using the associated pointer included in the record to cause the further service module to provide the corresponding service if the further service module is held by the service gateway; and

requesting support from an external source by sending a message to the external source that includes an identification of the further service module if the further service module is not held by the service gateway.

4. (Previously Presented) The service gateway of claim 1, wherein the control mechanism is operable to compare successive responses from an external source to identify response duplication indicative of a recursive error.

- 5. (Previously Presented) The service gateway of claim 1, wherein the control mechanism reacts to the identification of a service module and associated data in a response from an external source by supplying the associated data to the identified service module, if held by the service gateway, for processing by the service module.
- 6. (Previously Presented) The service gateway of claim 1, wherein an external source is a service provider.
- 7. (Previously Presented) The service gateway of claim 1, wherein an external source is a service gateway operator.
- 8. (Currently Amended) A computer program comprising program code on a carrier medium, operable in a service gateway computer, the service gateway computer being operable to connect at least one local client to an external network, the program code being operable:
  - to support at least one service module at the service gateway for providing a corresponding service; and
  - to respond to a request for a first service provided by a service module not present at the service gateway by sending one or more messages to an external source until a response from the external source identifies a service module within the gateway that is capable of providing the first service;
  - wherein the response received from the external source identifies a proposed service and includes an input stream comprising an encoded version of the first service, wherein the proposed service is a service required to decode the encoded version of the first service.
  - 9. (Previously Presented) The computer program of claim 8, the program code being further operable to:

maintain a record that identifies each service module held by the service gateway, the record including an associated pointer to each of the service modules; react to a received request that identifies a first service module by:

accessing the record to determine if the first service module is held by the service gateway;

using the associated pointer included in the record to cause the first service module to provide a corresponding service if the first service module is held by the service gateway; and

requesting support from an external source by sending a message to the external source that includes an identification of the first service module if the first service module is not held by the service gateway; and

react to a response from the external source that identifies a second service module by:

accessing the record to determine if the second service module is held by the service gateway;

using the associated pointer included in the record to cause the second service module to provide the corresponding service if the second service module is held by the service gateway; and

requesting support from an external source by sending a message to the external source that includes an identification of the second service module if the second service module is not held by the service gateway.

10. (Previously Presented) The computer program of claim 9, wherein the program code is operable to:

react to a response from the external source that identifies a further service module by accessing the record to identify if the further service module is held by the service gateway and:

- using the associated pointer included in the record to cause the further service module to provide the corresponding service if the further service module is held by the service gateway; and
- requesting support from an external source by sending a message to the external source that includes an identification of the further service module if the further service module is not held by the service gateway.
- 11. (Previously Presented) The computer program of claim 8, wherein the control mechanism is operable to compare successive responses from an external source to identify response duplication indicative of a recursive error.
- 12. (Previously Presented) The computer program of claim 8, wherein the computer code reacts to the identification of a service module and associated data in a response from an external source by to-supplying the associated data to the identified service module, if held by the service gateway, for processing by the service module.
- 13. (Previously Presented) The computer program of claim 8, wherein an external source is a service provider.
- 14. (Previously Presented) The computer program of claim 8, wherein an external source is a service gateway operator.
- 15. (Cancelled)
- 16. (Currently Amended) A service gateway system comprising a processor, a memory, and a computer program comprising program code held in said memory and operable to: control said processor to connect at least one local client to an external network; support at least one service module at the service gateway for providing a corresponding service; and

- respond to a request for a first service provided by a service module not present at
  the service gateway by sending one or more messages to an external source
  until a response from the external source identifies a service module within
  the gateway that is capable of providing the first service;
- wherein the response received from the external source identifies a proposed

  service and includes an input stream comprising an encoded version of the

  first service, wherein the proposed service is a service required to decode
  the encoded version of the first service.
- 17. (Currently Amended) A service gateway system comprising a processor, a memory, and computer program code on a carrier medium, the system being configured to:
  - provide at least one service module for providing a corresponding service; and provide a control mechanism configured to respond to a request for a first service provided by a service module not present at the service gateway by sending one or more messages to an external source until a response from the external source identifies a service module within the gateway that is capable of providing the first service;
  - wherein the response received from the external source identifies a proposed

    service and includes an input stream comprising an encoded version of the

    first service, wherein the proposed service is a service required to decode

    the encoded version of the first service.
- 18. (Currently Amended) A method of servicing at least one local client connected to an external network via a service gateway, the method comprising:

  holding at least one service module at the gateway for providing a corresponding service; responding to a request for a first service provided by a service module not present at the service gateway, by sending one or more a-messages to an external source until a

response from the external source-identifies a service module within the gateway that is capable of providing the first service;

wherein the response received from the external source identifies a proposed

service and includes an input stream comprising an encoded version of the

first service, wherein the proposed service is a service required to decode

the encoded version of the first service.

- 19. (Previously Presented) The method of claim 18, further comprising:
  - maintaining a record in the service gateway that identifies each service module held by the service gateway, the record including an associated pointer to each of the service modules;

reacting to a request that identifies a first service module by:

- accessing the record to determine if the first service module is held by the service gateway;
- using the associated pointer included in the record to cause the first service module to provide a corresponding service if the first service module is held by the service gateway; and
- requesting support from an external source by sending a message to the external source that includes an identification of the first service module if the first service module is not held by the service gateway; and reacting to a response from the external source that identifies a second service module by:
  - accessing the record to determine if the second service module is held by the service gateway;
  - using the associated pointer included in the record to cause the second service module to provide the corresponding service if the second service module is held by the service gateway; and
  - requesting support from an external source by sending a message to the external source that includes an identification of the second service

module if the second service module is not held by the service gateway.

- 20. (Previously Presented) The method of claim 19, further comprising:
  - reacting to a response from an external source that identifies a further service module by accessing the record to identify if the further service module is held by the service gateway and:
    - using the associated pointer to cause the further service module to provide the corresponding service if the further service module is held by the service gateway; and
    - requesting support from an external source by sending a message to the external source that includes an identification of the further service module if the further service module is not held by the service gateway.
- 21. (Previously Presented) The method of claim 18, further comprising comparing successive responses from an external source to identify response duplication indicative of a recursive error.
- 22. (Previously Presented) The method of claim 18, further comprising reacting to the identification of a service module and associated data in a response from an external source by supplying the associated data to the identified service module, if held by the service gateway, for processing by the service module.
- 23. (Previously Presented) The method of claim 18, further comprising requesting support from an external service provider if a given service module is not held by the service gateway.
- 24. (Previously Presented) The method of claim 18, further comprising requesting support from an external service gateway operator if a given service module is not held by the service gateway.